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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/758,550	01/14/2004	Shinichi Shoji	OMRNP073	5997
22434	7590 01/19/2006		EXAMINER	
BEYER WEAVER & THOMAS LLP			KRAMSKAYA, MARINA	
P.O. BOX 70 OAKLAND	0250 , CA 94612-0250		ART UNIT	PAPER NUMBER
,			2858	
			DATE MAILED: 01/19/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		AU				
	Application No.	Applicant(s)				
	10/758,550	SHOJI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Marina Kramskaya	2858				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address -				
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDON	N. imely filed  In the mailing date of this communication.  ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>03 N</u>	lovember 2005.					
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>3-12</u> is/are pending in the application						
4a) Of the above claim(s) <u>5-12</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>3-4</u> is/are rejected.	6) Claim(s) <u>3-4</u> is/are rejected.					
•	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>03 November 2005</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:		a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
<ul> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>						
3. Copies of the certified copies of the prio application from the International Bureau	•	red in this National Stage				
* See the attached detailed Office action for a list		ed				
	or and defining depice not recent	<b></b>				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summar					
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> </ul>		Patent Application (PTO-152)				
Paper No(s)/Mail Date	6)					

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## **DETAILED ACTION**

### Election/Restrictions

1. This application contains claims 5-12 drawn to an invention nonelected without traverse in Paper No. 11/03/2005. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tsuruoka et al., US 5,992,240, in view of Zimmerman et al., US 6,437,772.

Tsuruoka discloses a capacitance sensor having specified directionality, said capacitance sensor comprising:

- detection electrodes (37a & 37b, FIG. 9);
- an insulating material (portion 33 of the insulation 31, FIG. 9) insulating said detection electrodes from each other; and

 a main body (32") containing said detection electrodes and said insulating material and having a detection surface defined by said directionality, said detection surface having unevenness (see 64 in FIG. 10B, column 14, lines 54-55).

Tsuruoka does not disclose the unevenness of the surface having a plurality of mutually adjacent protrusions with thickness decreasing in the direction of each protrusion.

Zimmerman discloses a capacitive sensor wherein the unevenness of the surface has a plurality of mutually adjacent protrusions (61 with voids 64 in between each protrusion) with thickness decreasing in the direction of each protrusion (see FIG. 7B).

Therefore, it would have been obvious to a person of ordinary skill in the art to include uneven protrusions with decreasing thicknesses in the direction of each protrusion, as taught by Zimmerman, in the sensor of Tsuruoka, in order detect the capacitance formed between each protrusion.

4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tsuruoka et al., US 5,992,240, in view of Zimmerman et al., US 6,437,772, as applied to claim 3 above, and further in view of Kato et al., US 6,456,198.

Tsuruoka, as modified, discloses the capacitance sensor as applied to Claim 3 above.

Tsuruoka does not disclose

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 a shield electrode inside said main body, said shield electrode being open toward said detection surface, said detection electrodes being disposed inside said shield electrode; and

- a protective cover covering said shield electrode and said detection electrodes.
   Kato discloses the capacitance sensor comprising:
- a shield electrode (composed of 72, 73, 74) inside said main body (61), said shield electrode being open toward said detection surface (toward 54), said detection electrodes being disposed inside said shield electrode (See FIG. 7); and

a protective cover (case 61 and top member 54) covering said shield electrode and said detection electrodes.

Therefore, it would have been obvious to a person of ordinary skill in the art to include a shield electrode and a protective cover, as taught by Kato in the sensor of Tsuruoka, in order to protect the detection electrodes.

## Response to Arguments

5. Applicant's arguments with respect to claims 3-4 have been considered but are moot in view of the new ground(s) of rejection.

### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Speakman, US 6,503,831, discloses a capacitive sensor with an

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uneven surface with several adjacent protrusions with thickness decreasing in the direction of each protrusion.

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marina Kramskaya whose telephone number is (571)272-2146. The examiner can normally be reached on M-F 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached on (571)272-2399. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marina Kramskaya

Examiner

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MK

DIANE LEE SUPERVISORY PATENT EXAMINE